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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/637,142	08/08/2003	Show-Mean Wu	1001.1684101	3414
28075 7:	590 10/12/2006		EXAMINER	
	, SEAGER & TUFTE	THANH, LOAN H		
1221 NICOLLET AVENUE SUITE 800			ART UNIT	PAPER NUMBER
MINNEAPOLIS, MN 55403-2420			3763	

DATE MAILED: 10/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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/ .	"A	Application No.	Applicant(s)				
		10/637,142	WU ET AL.				
	Office Action Summary	Examiner	Art Unit				
		LoAn H. Thanh	3763				
Period fo	The MAILING DATE of this communic or Reply	cation appears on the cove	r sheet with the correspondence	e address			
WHI(- Exte after - If NO - Failt Any	CHEVER IS LONGER, FROM THE MA ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the com	ALING DATE OF THIS CO f 37 CFR 1.136(a). In no event, how inication. utory period will apply and will expire vill, by statute, cause the application t	OMMUNICATION. ever, may a reply be timely filed SIX (6) MONTHS from the mailing date of the become ABANDONED (35 U.S.C. § 133)	his communication.			
Status							
1) 🛛	Responsive to communication(s) filed	I on <i>08/0€/03</i> .					
2a) <u></u>		b)⊠ This action is non-fin	al.				
3)	Since this application is in condition for			the merits is			
,	closed in accordance with the practic						
Disposit	ion of Claims		·				
		ndication					
	 4) ☐ Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 						
	Claim(s) is/are allowed.	Withdrawn Horn Consider	auon.				
	· · · · · · · · · · · · · · · · · · ·	are rejected					
	6)⊠ Claim(s) <u>1,2,4-10,14-18 and 21-25</u> is/are rejected. 7)⊠ Claim(s) <u>3,11-13,19,20,26 and 27</u> is/are objected to.						
	Claim(s) are subject to restrict	·	mant				
ا (۵	oralin(s) are subject to restrict	on and/or election require	ment.				
Applicat	ion Papers						
9)[The specification is objected to by the	Examiner.					
10)	The drawing(s) filed on is/are:	a) accepted or b) obj	ected to by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including t						
11)	The oath or declaration is objected to						
	under 35 U.S.C. § 119						
_	•	or foreign priority under 25	11.0.0.0.0.140(=) (=) (=)				
	Acknowledgment is made of a claim fo ☐ All b)☐ Some * c)☐ None of:	or foreign priority under 33	0.5.C. § 119(a)-(d) of (1).				
۵)	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority d						
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* 0	application from the Internation						
	See the attached detailed Office action	for a list of the certified co	ppies not received.				
Attachmen	t(s)						
	ce of References Cited (PTO-892)	•	Interview Summary (PTO-413)				
	ce of Draftsperson's Patent Drawing Review (PT		Paper No(s)/Mail Date				
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 11/06/03 & 12/10/04.		Notice of Informal Patent Application Other:				
J.S. Patent and T	rademark Office						
PTOL-326 (R	Rev. 08-06)	Office Action Summary	Part of Paper No./Ma	ail Date 20060928			

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DETAILED ACTION

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 12/10/04 & 11/06/03 was filed before the first office action on the merits. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements have been considered by the examiner.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2,4-10,14-18, 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holman et al. (US 6,953,470 B2) in view of Barath (US 5,196,024).

Holman et al. disclose a balloon catheter having an elongate shaft including an inner tube and outer tube and an inflation lumen disposed therebetween for use in angioplasty. Holman et al. disclose plurality of distal openings 52. (See figures 3, 5 and col. 5, lines 5-24). However, Holman et al. does not teach cutting edges on the balloon. Barath teaches a cutting balloon having cutting edges on the balloon and holes for inflating the balloon for use in vessels which would require plaques to be removed. It would have been obvious to one of ordinary skill in the art of balloon angioplasty to

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modify the balloon to include cutting blades such as those disclosed by Barath in order to remove plaque or stenosis in the blood vessels.

With respect to claims 16-18 and 23-25, Holman et al. in view of Barath are both silent to the shapes of the cross section or the number of lumen being 4. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the cross sectional area of the side lumen as a mere design choice lacking any criticality of the shape. The Examiner is taking the position that matters relating to ornamentation only, which have no mechanical function, cannot be relied upon to patentably distinguish the claimed invention from the prior art. The particular shape of a product is of no patentable significance since it appears to be a matter of choice that a person of ordinary skill in the art would find obvious absent persuasive evidence that the particular configuration of the claimed shape of the cross sectional area was significant. In re Dailey, 357 F.2d 669,149 USPQ 47 (CCPA 1966). With respect to the number of the lumens, it is well know in the catheter arts to increase the number of lumens in a catheter for any desired purpose. Multi-lumen catheters are well known in the catheter arts.

Allowable Subject Matter

Claims 3,11-13,19-20,26-27 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LoAn H. Thanh whose telephone number is (571) 272-4966. The examiner can normally be reached on Mon. - Fri. (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Lucchesi can be reached on (571) 272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LoAn H. Thanh Primary Examiner Art Unit 3763